The Forty-First Hong Kong Mathematics Olympiad (HKMO) (2023/24)

Aims / Objectives

This is to invite secondary schools to participate in the captioned competition.

Details

2. The Forty-First Hong Kong Mathematics Olympiad (41st HKMO) is jointly organised by the Curriculum Development Institute, EDB and the Department of Mathematics and Information Technology of The Education University of Hong Kong. The aims of the competition are to develop students' mathematical abilities and foster their interest in mathematics.

3. The Heats of the 41st HKMO will be held in the morning of **3 February 2024 (Saturday)**. The <u>50 teams</u> with the highest aggregate scores (sum of the scores in **Individual and Group Events**) in the Heats will enter the Finals which is scheduled for April 2024.

4. Schools may enrol to participate in the 41st HKMO by submitting the completed e-form on the website: https://forms.gle/ReafdbiCztByEqKH7 **on or before 5 January 2024 (Friday)**. Details of the 41st HKMO can also be found in the following website:
https://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/hkmo-index.html .

5. Regulations and poster for the captioned competition are attached (<u>Appendices 15a and 15b</u>).

Contact Person

6. For enquiries, please contact Mr CHENG Sze-man of Mathematics Education Section, Curriculum Development Institute, Education Bureau on 2153 7436.

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Regulations of the Heats

1. The Heats consists of two parts, namely, individual and Group Events. Individual Event will last for **60 minutes** and Group Event will last for **20 minutes**.

2. Each school may nominate **4 to 6 student participants** of **Secondary 5 level or below**. Any 4 of them may take part in the Individual Event and any 4 of them may take part in the Group Event.   Teams of less than 4 members will be disqualified.

3. All student participants, **accompanied by the teacher-in-charge, should wear proper school uniform**. The competition will commence at 9:00 a.m. sharp.

4. Question papers are printed in both Chinese and English. Verbal instructions will be given in Cantonese.   However, for competitors who do not understand Cantonese, written instructions in both Chinese and English will be provided.   Question papers are printed in both Chinese and English.

5. Each participant has to solve 15 questions in the Individual Event (***10 questions in Part A*** and ***5 questions in Part B***), and 10 questions in the Group Event (***5 questions in Part A*** and ***5 questions in Part B***).

6. In the Group Event, discussions among participating team members are allowed provided that the voice level is kept to a minimum.

7. Devices such as calculators, four-figure tables, protractors, compasses, set squares and rulers will **NOT** be allowed to use throughout the Heats, otherwise the participant will be disqualified or risk deduction of marks.

8. **All answers in the Individual and the Group Events should be numerical and reduced to the simplest form unless stated otherwise.   No proof or demonstration of work is required.**

9. All electronic communication devices (include tablets, mobile phones, multimedia players, electronic dictionaries, databank watches, smart watches or other wearable technologies with communication or data storage functions) and alarm device(s) should be turned off during the Heats. Failing to do so, the participant **will risk disqualification**.

10. For the Individual Event, 1 mark and 2 marks will be given to each correct answer in Part A and Part B respectively.   The total maximum score for a school team should be 80.

11. For the Group Event, 2 marks and 3 marks will be given to each correct answer in Part A and Part B respectively.   The total maximum score for a school team should be 25.

12. No mark for speed will be awarded in the Heats.

13. Participants should bring along their own writing instruments, e.g. **ball pens** and **pencils**.

14. Based on the highest aggregate scores (sum of the scores in the Individual and the Group Events), the Organising Committee will select the 50 highest scored teams entering the Finals.

15. Awards:

(a) For each of Individual and Group Events, after arranging all participant's scores in the order from the highest to the lowest

    (i) participants obtaining full score will be awarded Best Performance honour certificates ;

    (ii) after deducting those participants with full score achievement as in (i),

        (1) the first 2% from the remaining participants in the said order will be awarded First-class Honour certificates ;

        (2) the next 5% from the remaining participants will be awarded Second-class Honour certificates ; and

        (3) the next 10% from the remaining participants will be awarded Third-class Honour certificates ;

        (4) the next 13% from the remaining participants will be awarded Honourable Mention certificates ;

(b) About 10% of participating schools with the highest aggregate scores (sum of the scores in the Individual and Group Events) in each of the regions (Hong Kong Island, Kowloon Region One, Kowloon Region Two, New Territories East, and New Territories West) will be awarded certificates of merit.

16. Should there be any queries, participants should reach Mr CHENG Sze-man, the representative of EDB in the Organising Committee, **<u>via the teacher-in-charge</u>** at 2153 7436 immediately after the Heats.   The decision of the Organising Committee on the queries is final.

Poster of the 41st Hong Kong Mathematics Olympiad